Incoming
M/001/0067

CS MINING

ITDF Neutralization Proposal

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Div. of Oil, Gas & Mining

Date: Sept 6th 2016

1.0 Description

Leach tank 3 is being utilized as an agitated lime slurry tank. Lime kiln dust (LKD) have begun and are being offloaded into leach tank 3 pneumatically via through a water injected hydrocyclone in an attempt to suppress and minimize dust emission. The lime slurry will be reduced down to around 20% solids. This equates to 44 tons of LKD offloaded with around 44,000 gallons of reclaimed ITDF water. The pH of this slurry will be around 12.5 based on laboratory test work which will be pumped straight into the tailings booster station at a rate of 50gpm. ITDF solution will be recirculated at a rate of 400gpm and will mix with the LKD solution from Leach tank 3 at the tailings booster station

2.0 LKD Deliveries

LKD deliveries will be as follows:

- Four loads a week (Monday thru Thursday) at 44Ton a load for the month of September

Adjustments will be made as we monitor pH and may increase deliveries in the month of October

3.0 Sampling

The following samples will be collected and tested for pH on a twice daily

- ITDF discharge point at the pond from booster Station
- Solution from ITDF into recirculation line

The following samples will be collected bi-weekly (or as needed) and sent to an outside lab for full water analysis

- Solution from ITDF into recirculation line

In addition to the above sampling an additional set of pH samples will be done once a week from 4 sites around the ITDF to help obtain a more representative sample.

4.0 Conclusion

A weekly report will be sent out to show pH changes and will also reflect deliveries and results from outside labs when received